

PATENT ABSTRACTS OF JAPAN

(11)Publication number : 06-239942
 (43)Date of publication of application : 30.08.1994

(51)Int.Cl. C08F251/00
 C08L 51/02
 G02C 7/04

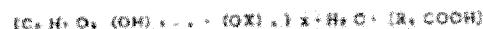
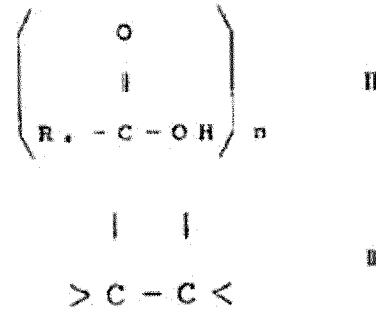
(21)Application number : 04-362194 (71)Applicant : ONISHI YASUHIKO
 (22)Date of filing : 17.12.1992 (72)Inventor : ONISHI YASUHIKO

(54) DEXTRAN MATRIX POLYMER

(57)Abstract:

PURPOSE: To obtain the subject polymer useful as a material having affinity for living body such as contact lens by subjecting a cationic derivative of dextran and an unsaturated acid to matrix polymerization.

CONSTITUTION: A cationic derivative of dextran of formula I [X is $(CH_2)_nR_1$ or COR_2 (R_1 is NH_3 , $C_6H_4-NH_2$, etc.; (n) is 1-3; R_2 is CH_2 , NH_3 or $C_6H_4-NH_2$, etc.; (a) is 0-3; (x) is 5-50,000] is polymerized with an unsaturated acid having a structure of its polymer of formula II (R_4 is 2-16C organic group containing bond of formula III derived from $C=C$ bond of unsaturated acid; (n) is 20-300,000) (e.g. acrylic acid or crotonic acid) to give the objective polymer of formula IV. This polymer is preferably obtained by reacting the unsaturated acid with an aqueous solution of the derivative of formula I in the presence of an initiator such as potassium persulfate.



IV